

# Dutch national working group Smart Charging

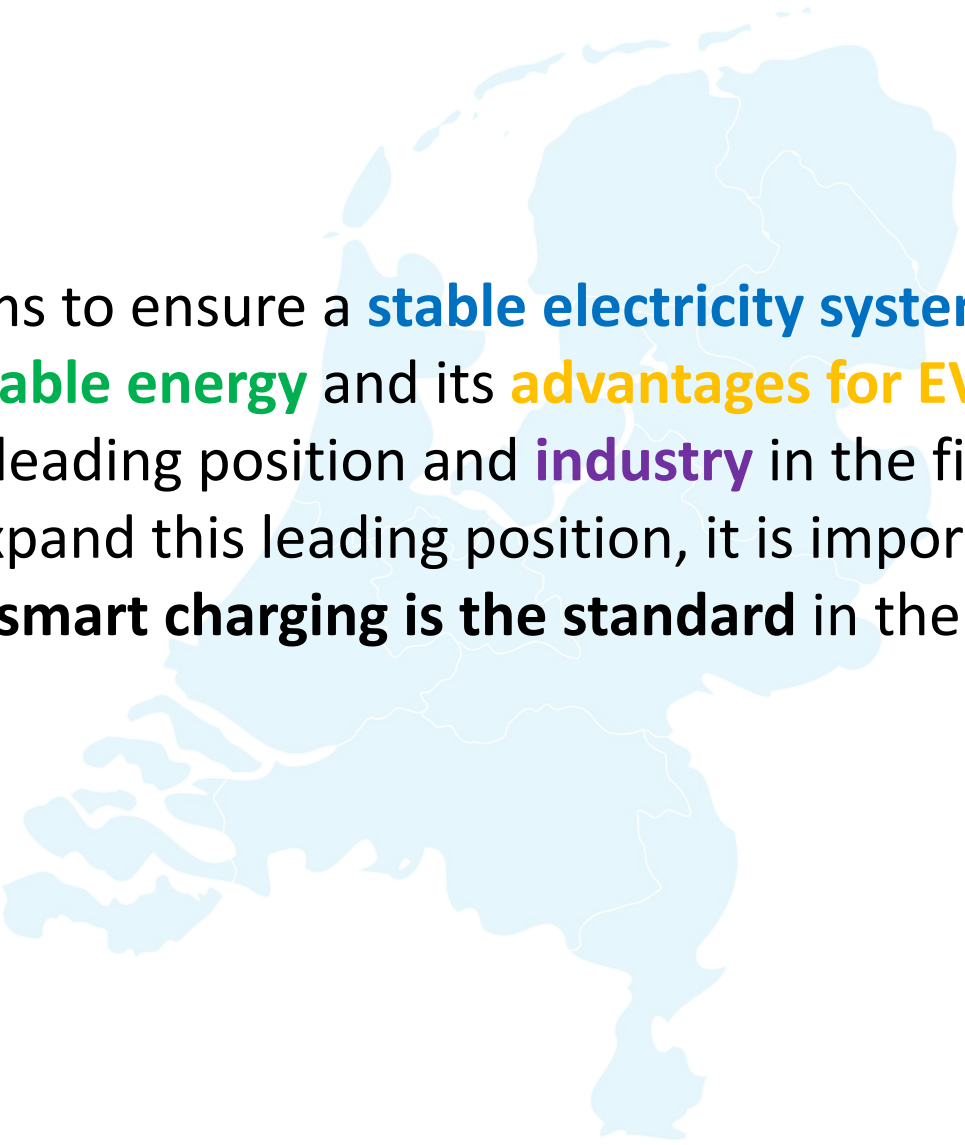
Frank Geerts



Nationale  
Agenda  
Laadinfrastructuur

## Smart Charging – Dutch National Working Group

Smart charging aims to ensure a **stable electricity system** in which optimal use can be made of **renewable energy** and its **advantages for EV drivers**. The Netherlands have a worldwide leading position and **industry** in the field of smart charging. In order to further expand this leading position, it is important to work towards a situation in which **smart charging is the standard** in the coming years.



# Smart Charging

Not the moment of plug-in  
But “hidden” technology  
establishes the optimal moment and charging speed  
during the session



# 1. Costs



## 2. Renewables



## 3. Energy System



A close-up photograph of a person's hand plugging a black charging cable into a white charging station. The background is a brick wall. The charging station has a small green indicator light. The image is used as a background for a presentation slide.

## Passenger cars

**Home (70%)**

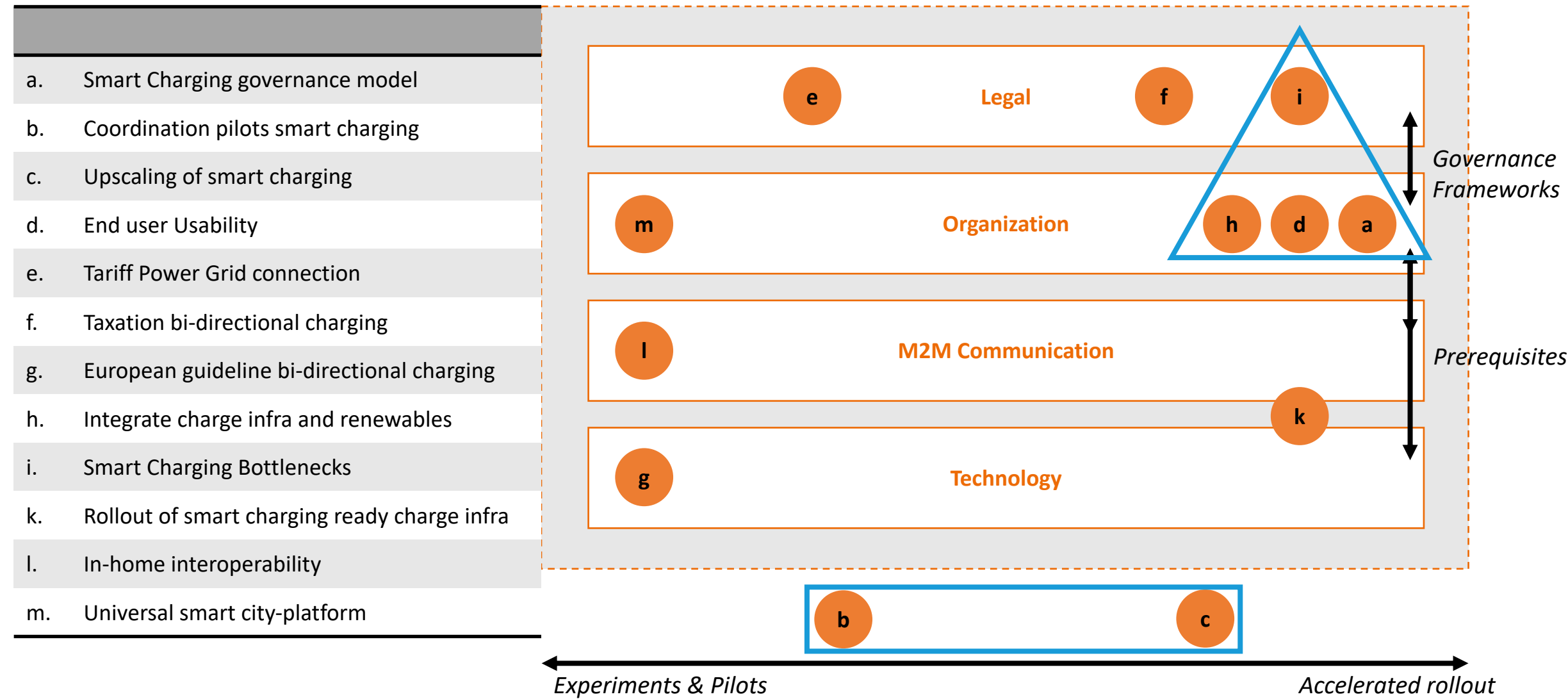
**Work (10%)**

**Visit (10%)**

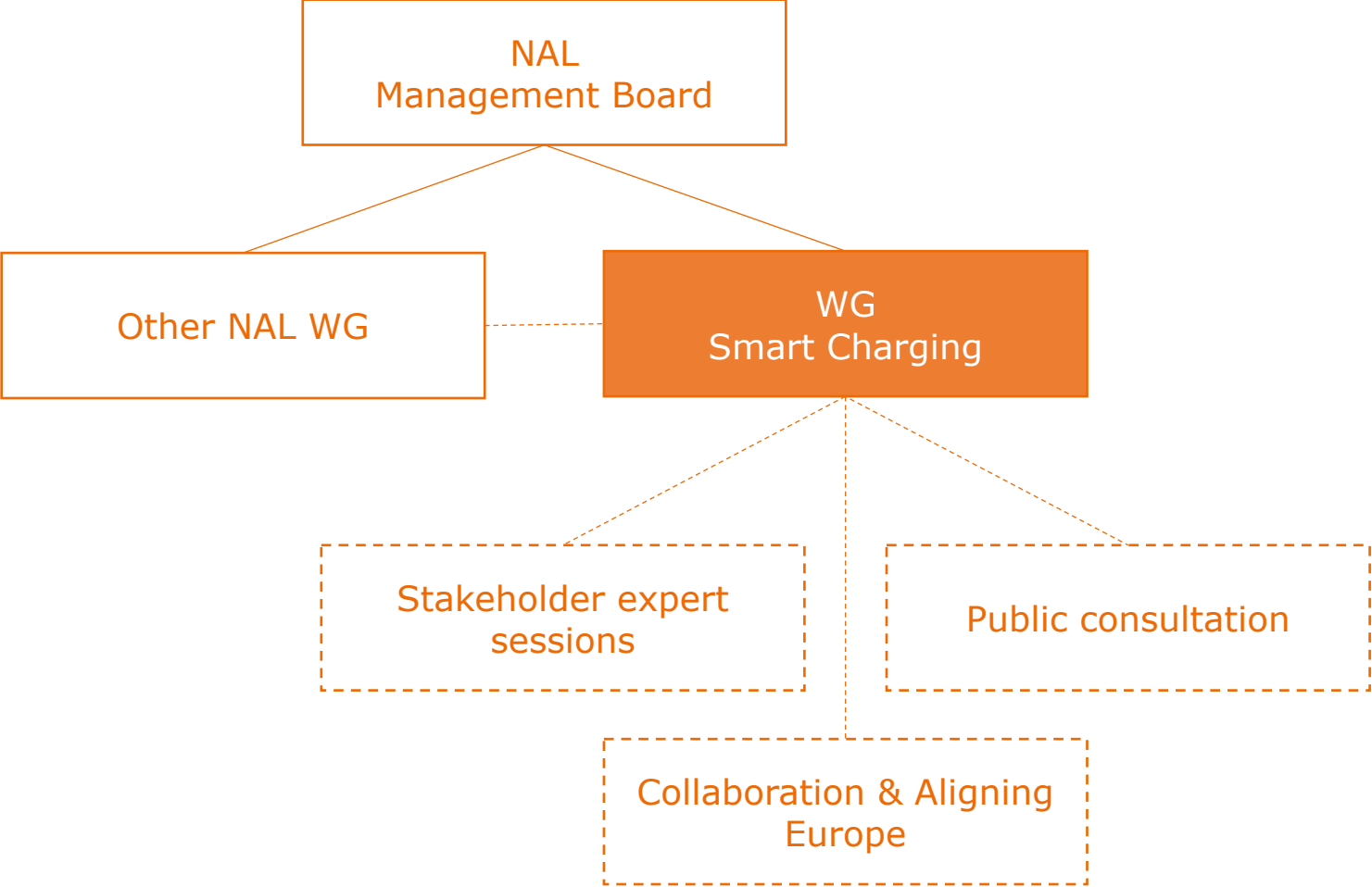
**Fast Charging (10%)**



# Actions Dutch NAL WG Smart Charging



# Organisation Working group Smart Charging



Organization	Name
ANWB	Marco van Eenennaam
VER	Robert van Gent
TLN	Rob Aarse
RAI Vereniging	Wout Benning
DOET	Eric van Voorden
eViolin	Michel Bayings
NVDE	Wouter Langendoen
Netbeheerders	Marisca Zweistra
NKL	Roland Ferweda
NAL-regio G4	Matthijs Kok, Jo Deckers, Iris Kolkman
Min IenW	Robbert Monteban
Chairman	Frank Geerts
Secretary (acting)	Hanna van Sambeek
Experts	Harm-Jan Idema, Alex Hendriks, Simone en Have, Bram van Eijsden

# Basics for Smart Charging are ready



## Smart Charging Requirements (SCR)

NAL werkgroep Smart Charging

Auteur	Versie	Datum	Toelichting
Elia/DNL	0.1 WIP Draft	17 april 2020	Opzet ter bespreking met NAL kernteam Smart Charging
NAL kernteam Smart Charging	0.2 WIP Draft	12 juni 2020	Feedback NAL kernteam Smart Charging verwerkt
NAL kernteam Smart Charging	0.90 Proposal	8 oktober 2020	Feedback stakeholder experts verwerkt
NAL kernteam Smart Charging	0.99 Final Version	1 december 2020	Aanvullende feedback NAL kernteam Smart Charging verwerkt
NAL kernteam Smart Charging	1.0 Definitief	3 februari 2021	Redactionele wijzigingen

## Lessons learned Smart Charging in Nederland



2015-2020

## Verkenning Organisatie Slim Laden



<https://www.agendalaadinfrastructuur.nl/ondersteuning+gemeenten/documenten+en+links/bibliotheek+--+smart+charging/default.aspx>



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# Accelerated roll-out



Standard setting:  
x kWh in y time

Extra  
flexibility

Charge  
me  
now



# Charging



# Questions?



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